

Serial No. Unknown (Parent Serial No. 09/141,866)

Filed: Herewith (Parent: August 28, 1998)

Title: SUPERCRITICAL COMPOSITIONS FOR REMOVAL OF ORGANIC MATERIAL AND METHODS OF USING SAME

In the Claims

Please cancel claims 1-18 and 33-42 as indicated in the Request for Filing a Divisional Application filed herewith. The pending claims are reproduced herein for the Examiner's convenience.

- SC*
19. An organic material removal composition comprising at least one component in a supercritical state, wherein the composition includes an oxidizer selected from the group of sulfur trioxide (SO_3), sulfur dioxide (SO_2), nitrous oxide (N_2O), NO, NO_2 , ozone (O_3), hydrogen peroxide (H_2O_2), F_2 , Cl_2 , Br_2 , and oxygen (O_2).
20. The composition of claim 19, wherein the at least one component in a supercritical state is the oxidizer selected from the group of sulfur trioxide (SO_3), sulfur dioxide (SO_2), nitrous oxide (N_2O), NO, NO_2 , ozone (O_3), hydrogen peroxide (H_2O_2), F_2 , Cl_2 , Br_2 , and oxygen (O_2).
21. The composition of claim 20 wherein the at least one component in a supercritical state is sulfur trioxide.
22. The composition of claim 21, wherein the composition consists essentially of sulfur trioxide in the supercritical state.
23. The composition of claim 19, wherein the composition includes a supercritical component in the supercritical state selected from the group of carbon dioxide (CO_2), ammonia (NH_3), H_2O , nitrous oxide (N_2O), carbon monoxide (CO), nitrogen (N_2), helium (He), neon (Ne), argon (Ar), krypton (Kr), and xenon (Xe).
24. The composition of claim 23, wherein the supercritical component is carbon dioxide and the oxidizer is sulfur trioxide.

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25. An organic material removal composition comprising an oxidizer in a supercritical state, wherein the oxidizer is selected from the group of sulfur trioxide (SO_3), sulfur dioxide (SO_2), nitrous oxide (N_2O), NO, NO_2 , ozone (O_3), hydrogen peroxide (H_2O_2), F_2 , Cl_2 , Br_2 , and oxygen (O_2).

B1 26. The composition of claim 25, wherein the oxidizer is sulfur trioxide.

SUB C3 27. An organic material removal composition comprising:
a first component selected from the group of carbon dioxide (CO_2), ammonia (NH_3), H_2O , nitrous oxide (N_2O), carbon monoxide (CO), nitrogen (N_2), helium (He), neon (Ne), argon (Ar), krypton (Kr), and xenon (Xe), wherein the first component is in a supercritical state; and
a second component selected from the group of sulfur trioxide (SO_3), sulfur dioxide (SO_2), nitrous oxide (N_2O), NO, NO_2 , ozone (O_3), hydrogen peroxide (H_2O_2), F_2 , Cl_2 , Br_2 , and oxygen (O_2).

12 28. The composition of claim 27, wherein the first component is carbon dioxide.

SUB C4 29. The composition of claim 27, wherein a ratio of the first component to the second component in the supercritical state is in the range of about 1:100 by volume to about 100:1 by volume.

30. The composition of claim 27, wherein the second component is sulfur trioxide and the first component is carbon dioxide.

SUB C5 31. The composition of claim 30, wherein a ratio of carbon dioxide:sulfur trioxide is preferably in the range of about 10:1 by volume to about 1:1 by volume.